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## DIRECTORY OF WORKERS IN THE FIRE FIELD

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Aerospace Safety Research and Data Institute  
Lewis Research Center  
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16. Abstract  This <u>Directory</u> was compiled to provide a list of workers engaged in fire research, their addresses and affiliations, and their principal fields of activity.  The initial criteria for the selection of names for this directory are recent contributions to fire literature, teaching of subjects relevant to fire science, or participation in or support of fire research programs. With some exceptions, fire service personnel and fire protection engineers have been excluded because directories already exist for these professionals. Also excluded are investigators engaged principally in studies of propulsion, combustion, and explosion phenomena, because these areas of study are somewhat aside from the main focus of fire research.  For purposes of this directory, fire science is taken to be the body of knowledge, art, and skill related to the investigation, analysis, and interpretation of the phenomena of unwanted fires and the evaluation of materials, methods, systems, and equipment related to fire safety, prevention, detection, and suppression.			
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## PREFACE

The objectives of the NASA Aerospace Safety Research and Data Institute (ASRDI) are:

1. To support NASA, its contractors and the aerospace industry with technical information and consulting on safety problems.
2. To identify areas where safety problems and technology voids exist and to initiate research programs both in-house and on contract in these problem areas.
3. To author and compile state-of-the-art and summary publications in our areas of concern.
4. To establish and operate a Safety Data Bank.

To accomplish its objectives, ASRDI is collecting, organizing and evaluating safety related information. One major activity involves fire safety, prevention, detection and suppression.

This publication is a directory of researchers and workers in the fire field and indicates each person's specific fields of interest such as accident investigation, combustion (fire) research, fire extinguishing agents, flammability of fabrics, information sciences, toxicity of materials, etc.

Frank E. Belles, Director  
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## FOREWORD

This Directory has been prepared jointly by the Applied Physics Laboratory of the Johns Hopkins University; the Fire Technology Division of the National Bureau of Standards; and the Aerospace Safety Research and Data Institute, NASA Lewis Research Center to fulfill a common need.

It is an enlarged version of a Provisional Draft (FFP B72-1, February 1972) compiled at the Applied Physics Laboratory by B. W. Kuvshinoff, R. M. Fristrom, and R. L. Tuve as an APL Fire Problems Program task. Reproducible computer printout for this edition was produced using the APL INFO-360 document writing package and the indexes by INDEXR and the CATNIP technique. The work done at APL on this Directory was supported by the National Science Foundation Grant GI-12, the RANN Program.

The National Bureau of Standards enlarged the list and verified the entries. This work was carried out by S. D. McLeod under NASA Contract C-506273, "A register of authoritative information sources in the field of fire technology." An appreciable number of names was added to the original list and all were verified by means of a questionnaire dated 17 April 1972.

Reproduction and distribution of this Directory by NASA Lewis Research Center constitutes completion of the task under NSF Grant GI-12 and NASA Contract C-506273.

The interest and support of Ralph H. Long, Jr., Program Manager, Advanced Technology Applications (FANN Program), National Science Foundation; R. M. Fristrom, Applied Physics Laboratory, The Johns Hopkins University, Principal Investigator of the APL Fire Problems Program; and of Paul T. Hacker, Program Manager and George Mandel, Chief, Information Services and Publications Branch, Aerospace Safety Research and Data Institute, are gratefully acknowledged.

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## INTRODUCTION

This Directory was compiled to provide a list of workers engaged in fire research, their addresses and affiliations, and their principal fields of activity.

Many important fire research problems involve several disciplines. In many cases a fire research worker is familiar with only a few fields, and he is often faced with the problem of working in a strange new area. Since current knowledge of most subjects is concentrated in the collective memories of workers active in those areas, many equivocal questions can be easily resolved by a telephone call or correspondence. Also, a good way to start work on a complex problem is to talk to someone in the field. Researchers are usually familiar with workers in their own fields, but are less well-acquainted with workers in other fields, even those in the same discipline. The gulf between members of different disciplines is usually greater than it need be. The purpose of this list is to encourage communication between diverse specialists.

The initial criteria for the selection of names for this directory are recent contributions to fire literature, teaching of subjects relevant to fire science, or participation in or support of fire research programs.

To keep this Directory to a reasonable size, limits had to be set. With some exceptions, fire service personnel and fire protection engineers have been excluded because directories already exist for these professionals. Also excluded are investigators engaged principally in studies of propulsion, combustion, and explosion phenomena, because these areas of study are somewhat aside from the main focus of fire research. Several complementary directories are listed in Par. 2.

For purposes of this directory, fire science is taken to be the body of knowledge, art, and skill related to the investigation, analysis, and interpretation of the phenomena of unwanted fires and the evaluation of materials, methods, systems, and equipment related to fire safety, prevention, detection, and suppression.

We are aware that some names that should appear are absent, and vice versa. Therefore, users are invited to submit suggestions and additions.

Indexes are provided of individuals by affiliation and by principal fields of interest. An alphabetical list of fields appears in Par. 5. These indexes are included to facilitate communication between workers and to foster interdisciplinary approaches to fire problems. It is not meant to be restrictive in any way. We hope to improve upon the design and content of this listing in future editions.

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See Footnote(1)

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## 2. COMPLEMENTARY DIRECTORIES AND SOURCES

The existence of several excellent directories have made it unnecessary to exhaustively list persons engaged in certain disciplines or occupations. The following publications are recommended as additional sources of names of workers with specialized interests, fields of activity, and professions.

### AMERICAN MEN OF SCIENCE, A BIBLIOGRAPHIC DIRECTORY

"The Physical and Biological Sciences," 1965, 6 vol; and "The Social and Behavioral Sciences," 1968, 2 vol; with supplements  
Eleventh edition, edited by The Jacques Cattell Press

R. F. Bowker Company  
1180 Avenue of the Americas  
New York, New York 10036

Contains over 150,000 names and biographical sketches of prominent scientists and researchers.

### DIRECTORY OF FIRE RESEARCH IN THE UNITED STATES 1969-1971

Sixth edition, 287p (1972)  
Committee on Fire Research  
National Academy of Sciences  
Washington, D. C.

Order from:  
Printing and Publishing Office  
National Academy of sciences  
2101 Constitution Avenue  
Washington, D. C. 20418

Detailed summaries of fire research projects in the United States, including data on sponsors, laboratories, personnel involved, purpose and description of research, and other information. Arrangement is by organization conducting the research. Includes indexes of sponsors, of in-house research, of subjects, and of laboratories.

### FIDATA

International Fire Protection Directory  
366 p, 2 pounds 85 (1971)

Fire Book Department  
Unisaf House  
32-36 Dudley Road  
Tunbridge, Wells  
Kent, England

Updated version of the International

Fire Service Directory and Who's Who in Fire Protection and Control (1965). Lists over 2000 fire brigades in the US, Japan, Norway, South Africa, and many other countries. Includes information on fire department operations, government departments, fire schools, associations, buyer's guide, etc. In English, French, German, and Spanish.

### FIRE RESEARCH ABSTRACTS AND REVIEWS Volume 15, 1973

Committee on Fire Research  
National Academy of Sciences -National Research Council  
Washington, D. C.

### FIRE RESEARCH 1968

Ministry of Technology and Fire Officers' Committee  
Joint Fire Research Organisation  
HMSO, London, England

Report of the Fire Research Steering Committee, with the Report of the Director of Fire Research. Includes committee lists.

### FIRE SERVICE DIRECTORY 1970-1971

Third edition, 118p, \$6.00 (1970)

National Fire Protection Association  
60 Batterymarch Street  
Boston, Massachusetts 02110

A compilation of names and addresses of fire chiefs and other fire officers, municipal fire departments, and state and provincial fire service authorities in the United States and Canada, plus tabulation of budgets, personnel, working schedules, fire companies, stations, apparatus, and related information. The directory is arranged by state (or province) and community. A personal name index is not provided. This directory is based on data submitted by fire departments. Departments that fail to submit data are not listed.

## 2. COMPLEMENTARY DIRECTORIES AND SOURCES

### INTERNATIONAL FIRE SERVICES DIRECTORY AND WHO'S WHO IN FIRE PROTECTION AND CONTROL

First edition, 220p (1965)

UNISAF Publications Ltd  
32-36 Dudley Road  
Tunbridge Wells  
Kent, England

A compilation in English, German, French, and Spanish of names and addresses of fire departments, research institutes, equipment manufacturers, fire protection associations, and heads of various fire protection agencies in many countries of the world. See: FIDATA, above.

### MARINE CHEMISTS DIRECTORY

NFPA SPP-10 (1968), 40p, 50 cents.

National Fire Protection Association  
60 Batterymarch Street  
Boston, Massachusetts 02110

A list of certified marine chemists prepared for shipping and marine interests.

### ORGANIZATION AND MEMBERS: 1970-1971

243 p, 1970

National Academy of Sciences, National Academy of Engineering, and National Research Council

National Academy of Sciences  
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2101 Constitution Avenue, NW

Washington, D. C. 20418

Descriptive list of committees and names of officers and members.

### WHO'S WHO IN THE FIRE SERVICES AND FIRE BRIGADE DIRECTORY

1971-1972 edition, 200 p, 1 pound 85 (1971)

Fire Books Department  
Unisaf House  
32-36 Dudley Road  
Tunbridge Wells  
Kent, England

Called the "Yellow Book." Includes a buyer's guide and details of Britain's public and industrial fire brigades, relevant Government departments and associations, and salvage corps. Who's who section lists over 600 people prominent in the fire services and fire protection.

### YEARBOOK AND COMMITTEE LIST 1972

180 p, Revised 15 September 1971

National Fire Protection Association  
60 Batterymarch Street  
Boston, Massachusetts 02110

Includes the Articles of the Association; Regulations for Technical Committees and Sections; Officers and Staff; Administrative, Advisory, and Technical Committees; Sections of the NFPA; and numerical and alphabetical lists of NEPA Standards.

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AMABILI, Louis J.  
ANDRES, Ronald P.  
ARCHIBALD, Fae  
BABCOCK, Chester  
BACHILER, Joseph F.  
BACKER, S.  
BAESE, Walter W.  
BAIRD, Andrew W.  
BAKER, J. Eugene  
BALLENGER, David  
BATHIE, William  
BATZER, M. M.  
BECKER, Henry A.  
BERRY, G. T.  
BENT, Edward W.

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BERNARDI, Gene  
BLETZACKER, Richard W. (Prof)  
BOLIN, John K.  
BORDEN, W.  
BRACKETT, David E.  
BRAIDECHE, Matthew M. (ChE, PE)  
BRANNIGAN, Francis I.  
BRAY, K. N. C.  
BRUNO, Raffaello (Dr)  
BRYAN, John L.  
BYERLY, Radford Jr (Dr)  
BYRUS, Robert C.  
CABRET, Albert  
CARKIN, Helen S.  
CASEY, James F.  
CHAMBERS, E. D.  
CLARK, Peter S.  
COBERLY, C. A.  
COLE, Richard  
COLEMAN, H. R.  
COOGAN, Charles H. Jr  
COOPER, Horace G.  
CORDELL, Curtis C.  
COTTON, Paul E.  
CROW, A. Bigler (Prof)  
DANA, Margaret  
DANCY, Ben B.  
DAWN, Frederick S. (Dr)  
DEVITO, Robert (MD)  
DIMAIO, Louis Robert  
DIXON, M. J.  
DIZINNO, P.  
EDSE, R.  
EMMONS, Howard W.  
EVERARD, William H.  
FAETH, G. M.  
FAVREAU, Donald F.  
FELLINGER, Robert C.  
FINSTON, Morton  
FISHER, Leslie (MPH)  
FLETCHER, E. A.  
FOLKMAN, W. S.  
FORD, Laurence M.  
FRYE, Robert  
GAPDNER, Hal E.  
GFELLER, Hans  
GLASSMAN, Irvin  
GOODRICH, Lyle  
GRAHAM, Robert D.  
GRANITO, Anthony F.  
GRIMES, Martin  
GRONBECK, M. P.  
GROSS, Robert A. (Prof)  
HAAS, W. A.  
HAESSLER, Walter M.  
HAMMACK, James M.  
HAMMEEMAN, David M.  
HART, James S. Jr  
HARTLEY, Boyd A.  
HAVILAND, David S.  
HAWKINS, G. A. (Dr)  
HEILMAN, Edward G.  
HERMANCE, Clarke (Prof)

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HOWARD, Jack B.  
HUDIBURG, Everett  
JABLONSKY, John L.  
JANES, Dale P.  
JELENKO, Carl (MD)  
JENSEN Gary S.  
JENSEN, Rolf H.  
JONES, J. Edward  
KANUPY, A. Murty  
KASKAN, W. E. (Dr)  
KEEGAN, E. W.  
KEEPEPS, Hugh  
KELSEY, Don M.  
KIMBALL, Albert W.  
KING, William F.  
KISHITANI, Koichi (Dr)  
KNOPFKE, Fred G. (J.D.)  
KOTOWSKI, John A. (Dr)  
KUMAGAI, Seiichiro  
KUVSHINOFF, Boris W.  
LABES, Willis G.  
LAURENDEAU, N. M.  
LAWTER, James R. (Dr)  
LEE, Richard S. L.  
LINDBERG, Robert B.  
LINDEROTH, L. Sigfred Jr  
LONG, C. H.  
LONG, Ronald (Dr)  
MACE, Harold  
MACLEAN, Donald  
MAPSCHALK, Henry E.  
MARTIN, D. G.  
MARTIN, Robert E. (Dr)  
MATHERS, Warren A.  
MCALFAY, Robert F. III (Prof)  
MCANIFF, Edward P.  
McCLENNAN, William Howard  
McCLURE, Claude (Col, MC)  
McCOY, Carl  
McDONAGH, Joseph M.  
McMANUS, Howard N. Jr  
MENCZER, Leonard F. (DDS)  
MOLL, Kendall D. (Dr)  
MOREHART, Jonas L.  
MORTON, B. F. (Dr)  
MURPHY, Edwin M.  
MURPHY, James L. (Dr)  
MUZIO, Lawrence (Prof)  
NAIMEP, Jack  
NICE, G. F.  
NICHOLS, J. A.  
O'KEEFE, Joseph  
O'NEILL, Anthony F.  
ODEEN, Kai  
OHMAN, John H.  
PAGNI, Patrick J.  
PALMER, Howard B. (Dr)  
PEEBLES, J. H.

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PETERSON, Carl E.  
PEYRONNIN, Chester A. (Prof)  
PHILLIPS, Anne W. (MD)  
PHILLIPS, Patrick E. (PE)  
PIETSCH, William H. Jr (Col)  
POST, L. A.  
PROPER, George H. Jr  
RADNOFSKY, M. I.  
RANDLEMAN, William  
RENHEIM, Bo  
ROBLEE, Charles L.  
ROCKETT, John A. (Dr)  
ROSENHAN, A. K.  
ROWE, Robert S. (Prof)  
ROYER, Keith  
RYAN, James V.  
SAITO, Hikaru  
SALZBERG, F.  
SAWYER, Robert F.  
SCHNEIDER, Sister Maxyne  
SEADER, J. D. (Prof)  
SEGAL, Louis  
SENNFNER, John E.  
SPORZA, Pasquale M.  
SHARMAN, Lewis J. (Dr)  
SHIPMAN, C. W. (Prof)  
SHREVE, John Fred  
SICHEL, M.  
SIRIGNANO, W. A.  
SMITH, Henry D.  
SMITH, Michael  
SMITH, Richard A.  
SMITH, Robert B.  
SNYDER, Clifford (MD)  
SPIEGELMAN, Arthur  
STEELE, Charles H.  
STERN, Sylvan P. (Prof)  
STEVENS, Richard E.  
STILLMAN, Timothy G. (AMI, FireE)  
STOLTENBERG, Carl H.  
SUCH, Steven  
SULLIVAN, F. J.  
SUMMERS, Howard  
SUPHIS, Dan  
SWERSEY, Arthur J.  
TAYLOR, Alan P.  
TOONG, T. Y.  
TREGAY, George W. (Dr)  
TRYON, George M.  
VALANCE, William G. (Dr)  
WALKER, Warren E.  
WATROUS, Laurence D.  
WEBBER, Laurence E.  
WELKER, J. Reed  
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WESTON, J. T. (Prof)  
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WILLIAMSON, R. Brady (Prof)  
WILSON, Rexford  
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 BRUNO, Paffaello (Dr)  
 BUCKLAND, Bruce (ME)  
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 HEINSOHN, Robert J. (Dr)  
 HESKESTAD, G. (PhD)  
 HIRSCH Stanley N.  
 HOPER, L. J. E. (Dr)  
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 JONES, R. B.  
 KANE, William F.  
 KAWENSKI, Edward M.  
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 KLEIN, Howard A.  
 KREISEL, E. F.  
 KRUCKEBERG, Robert F.  
 LA ROSA, Charles N.  
 LEDERMAN, Samuel J. (Prof)  
 LEE, Billy T.  
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 LEEN, Albert  
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 LEVIN, Bernard (Dr)  
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 LINFORD, R. M. F. (Dr)  
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 LIVINGSTON, W. I.  
 LUGAR, James P.  
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 MACDONALD, David M.  
 MADDEN, Forrest H.  
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 MALMBERG, Q. C.  
 MANSELL, Bert E.  
 MARCY, John F.  
 MARRIOTT, T. B. Jr  
 MATINKOVIC, Paul J.  
 MCCOFRISON, C. A.  
 MCCPACKEN, Richard P.  
 MCGUIRE, John H.  
 MCNAMARA, William J.  
 MEADE, John P. (Major USAF, BSC)  
 MELDRUM, D. N.  
 MERDINYAN, Philip H.  
 MURPHY, James L. (Dr)  
 NAKAUCHI, S.  
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 RUST, Thomas Jr  
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 SHAW, Morton  
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 SINGER, Joseph M.  
 SINNOTT, George (Dr)  
 SMITH, Warren K.  
 SNYDER, S. D. (Dr)  
 STAMPLEY, O. K.  
 STEELE, Robert W.  
 STEVENS, Alan  
 SULLIVAN, F. J.  
 SWERSEY, Arthur J.  
 TAYLOR, Alan R.  
 THOMPSON, Robert J.  
 TIEN, Chang-Lin (Prof)  
 TIFFANY, W.  
 TODTENKOPF, N.  
 TRANSUE, Ralph E.  
 TRUMBLE, Terry M.  
 van VEEN, Pieter H.  
 VAN DOLAH, Robert W.  
 WAGNER, John P.  
 WALKER, Peter  
 WAFREN, J. H.  
 WEBSTER, H. F.  
 WIGGINS, E. W.  
 WILSON, Ralph A. Jr  
 WOOD, Byard D.

## FIRE EXTINGUISHING AGENTS

ADAMS, Leon M.  
 ALGER, Paymond S.  
 ALLEN, William R.  
 ALVAPEZ, Norman J.  
 AMFHEIN, Thomas  
 AUCK, S. E.  
 AULT, Wayne E.  
 BAESE, Walter W.  
 BAJPAI, S. N.  
 BALLENGER, David  
 BARRITT, Jack S.  
 BAUMAN, Merritt  
 BERGER, Thomas W.  
 BERL, Walter G. (Dr)  
 BEPTSCHY, A. W.  
 BLUM, W. C.  
 BLUM, Adolph  
 BONUFA, M. S.  
 BOWER, F. A.  
 BRACKEBUSCH, Arthur P.  
 BRATVOID, H. R.

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BREEN, D. E.  
 BREITUNG, S. (Prof)  
 BRENDEN, J. J.  
 BRIGHT, Richard G.  
 BROID, A.  
 BROWN, T. J. Jr  
 BURFORD, Robert R.  
 BURGESS, David S.  
 BURTNER, Carol E.  
 CALCOTE, Hartwell F.  
 CANFIELD, Joseph A.  
 CAPENER, E.  
 CARLSON, C. O.  
 CHAMBERLAIN, David  
 CHAMBERLAIN, George  
 CHIESA, Peter J.  
 CHILTON, Frank  
 CHOLEN, Roger B.  
 CHRISTIAN, William J.  
 CLANTON, Carl N.  
 CLEAVER, P. F.  
 CLINGMAN, Ralph D.  
 COCKRAM, R. W. J.  
 CONEFORD, J. J. (Dr)  
 CONN, John W.  
 COOKE, T. C.  
 COOKE, T. F.  
 COOPER, Horace G.  
 COPLEY, John A. (Dr)  
 COWICK, Tom L.  
 COX, Lawrence  
 CRESCI, Robert J. (Prof)  
 CRETCHER, Robert E.  
 CURLESS, MacDonald  
 CUSTARD, George H.  
 CUTLER, Harold R.  
 DAMON, Glenn H.  
 DAVIS, Garrett  
 DEAN, Charles W.  
 DEHN, James  
 DEITZ, John B.  
 DEMAREE, James  
 DIETZ, W. L.  
 DIXON-LEWIS, G.  
 DORR, Victor A.  
 EARLY, Curtis L.  
 EAST, Jesse L. Jr  
 EDGINGTON, P. G.  
 FARLEY, Charles P. (Dr)  
 FAWCETT, Howard H.  
 FERON, Jean  
 FIELDING, George H.  
 FISCH, Fred (Dr)  
 FISH, Richard H.  
 FITZGERALD, P. M.  
 FLAGG, John F.  
 FLOFIA, Joseph A.  
 FORD, Charles Burton  
 FU, Tim T. (PhD)  
 FURNO, Aldo L.  
 GANDEE, G. W.  
 GASKILL, James R.  
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 GOODFELLOW, D. G.  
 GOODWIN, John T.  
 GOONAN, Thomas E.  
 GORDON, Alvin S.  
 GOFDON, J. A.  
 GORSKI, Robert A.  
 GRABOWSKI, G. J.  
 GRAY, P. (Prof)  
 GREENE, Frank T. (Dr)  
 GPUMER, Joseph  
 GUISE, Arthur B.  
 HAMIL, Henry (Dr)  
 HAMMACK, James M.  
 HANCOCK, Derrick A.  
 HARDY, C. E.  
 HARLEY, Richard A.  
 HARTMAN, Francis A.  
 HATHAWAY, Clayton E. (Dr)  
 HEARD, D. B.  
 HEBENSTFEIT, L. V.  
 HEINE, Donald A. (Capt)  
 HEPPEBA, William R.  
 HICKMAN, Jimmie L.  
 HILADO, Carlos J.  
 HILLENBRAND, Louis J.  
 HIRSCH Stanley N.  
 HOFER, L. J. E. (Dr)  
 HOFERFF, Thomas G.  
 HOSHINO, Makoto  
 HOTTINGER, Joseph J.  
 HOUGH, Ralph I.  
 HOWARD, Charles W.  
 HUGGET, Clayton (Dr)  
 JABLONSKI, Edwin J.  
 JENKINS, Frederick G.  
 JOHNSON, Neva B.  
 JOHNSON, Philip E.  
 KANE, William P.  
 KAWENSKI, Edward M.  
 KEEGAN, E. W.  
 KIDA, Hajime  
 KIMBALL, Albert W.  
 KIMZEY, J. Howard  
 KLEIN, Howard A.  
 KREISEL, E. P.  
 KUBIN, Robert (Dr)  
 LA ROSA, Charles N.  
 LANDIS, Abraham  
 LAUGHFIDGE, Frank  
 LEE, Billy T.  
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 LEIN, H. C.  
 LEONARD, J. T.  
 LEVY, Arthur  
 LISSANT, Kenneth J. (Dr)  
 LIVINGSTON, W. I.  
 LUGAR, James R.  
 LULL, David B.

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MAGNUS, G. (Dr)  
 MAHLEY, H. S.  
 MALMBERG, Q. C.  
 MANSELL, Bert E.  
 MAPRIOTT, T. B. Jr  
 MAPSDEN, K. P.  
 MARTINDILL, George H.  
 MAYO, Frank R.  
 MCCORRISON, C. A.  
 MCCrackEN, Richard P.  
 McHALE, Edward T. (Dr)  
 McNAMARA, William J.  
 McNASSER, K. W.  
 MEADE, John P. (Major USAF, BSC)  
 MELDRUM, D. N.  
 MERDINYAN, Philip H.  
 MERRITT, R. C.  
 MERTZ, Richard E.  
 MILNE, Thomas M. (Dr)  
 MUNN, A.  
 MYERSON, Irving  
 NEEL, Carr B.  
 NELSON, Ken  
 NEUFELD, Elmer  
 NICE, G. P.  
 NICHOLAS, Eldon B.  
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 O'REGAN, James  
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 PALMER, Thomas Y.  
 PERUZZI, Paul P.  
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 PETRELLA, R. V.  
 PIEPCE, Monte K.  
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 POIRIER, Robert  
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 POWERS, W. Robert  
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 PRYOR, Andrew J. Jr  
 PURINGTON, Robert G.  
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 QUILLIAN, P. D. Jr  
 REID, G.  
 RIVKIND, Leo  
 ROTHERMEL, Richard C.  
 SCHMITT, C. P.  
 SCHOLZ, E. G.  
 SCOFIELD, W.  
 SHEEHAN, Daniel F.  
 SHPILBERG, D.  
 SIBULKIN, Merwin (Prof)  
 SINGER, Joseph M.  
 SLICER, J. Sam  
 SNYDER, S. D. (Dr)  
 SOMERVILLE, George R.  
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 TRANSUE, Ralph E.  
 TUVE, Richard L.  
 van VEEN, Pieter H.  
 VAN DOLAH, Robert W.  
 VENTRONE, T. A.  
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 WALKER, Peter  
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 WAFREN, J. H.  
 WELDON, G. E.  
 WIENER, S. A.  
 WIGGINS, E. W.  
 WILTSHIRE, Lyman  
 YAMASHIKA, Shuzo  
 YOUNG, Robert A.

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ALLEN, William R.  
 ALVAREZ, Norman J.  
 AMRHEIN, Thomas  
 AUCK, S. E.  
 AULT, Wayne E.  
 BACHTLER, Joseph P.  
 BAILEY, Theodore L.  
 BAJPAI, S. N.  
 BALLENGER, David  
 BARNEY, F. J.  
 BAREITT, Jack S.  
 BATE, Langston F. Jr  
 BAUMAN, Merritt  
 BERGER, Thomas W.  
 BLUM, Adolph  
 BOLLE, Arnold  
 BRACKEBUSCH, Arthur P.  
 BRANNIGAN, Francis L.  
 BRUNO, Raffaello (Dr)  
 BURFORD, Robert R.  
 BURGESS, David S.  
 BYERLY, Radford Jr (Dr)  
 CANFIELD, Joseph A.  
 CAPENER, E.  
 CAPL, Kenneth J.  
 CAPLSON, C. O.  
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 DAVIS, Garrett  
 DAWN, Frederick S. (Dr)  
 DEAN, Charles W.  
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 EMSON, I. C.  
 FAWCETT, Howard H.  
 FISCH, Fred (Dr)  
 FORD, Laurence M.  
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 FU, Tim T. (PhD)  
 GATES, P.  
 GILLESPIE, P. J.  
 GOODFELLOW, D. G.  
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 HAMIL, Henry (Dr)  
 HANCOCK, Derrick A.  
 HARLEY, Richard A.  
 HARTMAN, Francis A.  
 HATHAWAY, Clayton E. (Dr)  
 HEBENSTREIT, L. V.  
 HENRY, Malcolm C. (Dr)  
 HERFEERA, William R.  
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 AHERN, John J.  
 ALPERT, R. L.  
 ANDERSON, C. P.  
 ANDERSON, Gordon C.  
 ANDERSON, H. T.  
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 BATZER, M. M.  
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 BECKER, Joseph I. de  
 BEENKEN, Dietrich  
 BEEPY, G. T.  
 BELL, John R.  
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 BENJAMIN, Irwin  
 BERG, Kenneth E.  
 BLACKMON, James T.  
 BIETZACKER, Richard W. (Prof)  
 BLOOM, Martin H.  
 BLUHM, W. C.  
 BOLIN, John K.  
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 BRAIDECHE, Matthew M. (ChE, PE)  
 BRANDER, Merle E.  
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 BRENNEMAN, James J.  
 BRIBER, Alex A.  
 BRIGHT, Richard G.  
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 BROWN, T. J. Jr  
 BRYAN, John L.  
 BUDNICK, Edward K. Jr  
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 CLARK, F. E.  
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 DIETZ, W. L.  
 DILLE, Robert J. (MD)  
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 SOLOMON, Richard H. (PE)  
 SPEICHER, H. W.  
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 STEPHEN, P. C.  
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 STONE, Robert J. Jr  
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 SUCH, Steven  
 SUMMERS, Howard  
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 SYMONDS, Paul S.  
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 TODTENKOPF, N.  
 TRANSUE, Ralph E.  
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 TRUMBLE, Terry M.  
 TRYON, George M.  
 van VEEN, Pieter H.  
 VANDALL, W. P.  
 VENTRONE, T. A.  
 VERAKIS, Harry C.  
 VIPER, L. C. (CE, MI, ME)  
 VOIGT, Robert K.  
 WAKAMATSU, Takao  
 WALKER, Hubert  
 WALKER, Peter  
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 WATERMAN, Thomas E.  
 WATROUS, Laurence D.  
 WEAVER, Robert  
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 WELDON, G. E.  
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 WESSON, H. F.  
 WETMORE, Elmer M.  
 WILLIAMSON, R. Brady (Prof)  
 WILLISFORD, William M.  
 WILLNER, Abner R.  
 WILSON, Carl C.  
 WILSON, Rexford  
 WINQUIST, C. J.  
 WINSLOW, William F.  
 WOLPHARD, Hans G.  
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 WOOD, Jack A.

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WYETH, H. W. G.  
 YAO, Cheng  
 YIN, Robert K.  
 YOUNG, J. R.  
 YOUNG, Robert A.  
 YUILL, Calvin H.  
 ZERNOW, Louis (Dr)  
 ZIMMER, B. A.

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ALEXANDER, George H.  
 AMABILI, Louis J.  
 ANDERSON, Gordon C.  
 APGAR, Warren M.  
 ARCHIBALD, Rae  
 BACHTLER, Joseph R.  
 BAPNEY, P. J.  
 BATE, Langston F. Jr  
 BENT, Edward W.  
 BERG, Kenneth E.  
 BJORNSEN, Robert  
 BLUM, W. C.  
 BLUM, Edward H.  
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 BYERLY, Radford Jr (Dr)  
 BYRUS, Robert C.  
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 CARTER, Walter H.  
 CASEY, James F.  
 CHANDLER, Craig C.  
 CLARK, Peter S.  
 CLODFELTER, R. G.  
 COHN, Bert M.  
 COOPER, Horace G.  
 COWICK, Tom L.  
 COX, Emmett T.  
 CUSTER, Richard L. P.  
 DAFWIN, Robert L.  
 DAVIS, Garrett  
 DAWN, Frederick S. (Dr)  
 DIXON, M. J.  
 DIZINNO, R.  
 DRAKE, W. H. (OBE, QFSON)  
 DRUMM, Donald L.  
 EVERARD, William H.  
 FORD, Laurence M.  
 FULTON, Reed C.  
 GARDNER, Hal E.  
 GEYER, George B.  
 GRANITO, Anthony R.  
 GPATZ, David B.  
 GRIMES, Martin  
 HAAS, W. A.  
 HANNA, Martin J. III (E.I.T.)  
 HANNA, W.  
 HART, James S. Jr  
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IPWIN, Carl W. (Dr)  
JABLONSKY, John L.  
JENSEN Gary S.  
JONES, J. Edward  
KEEPPERS, Hugh  
KELLEY, Anthony G.  
KELSPY, Don M.  
KEFR, James W.  
KIMBALL, Albert W.  
KLASMEIER, Harry W.  
KUHLMAN, Harold E.  
KUVSHINOFF, Boris W.  
LEVIN, Bernard (Dr)  
LINDEMANN, P. F.  
LINDNER, F. G.  
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MAATMAN, Gerald  
MACE, Harold  
MAGNUS, G. (Dr)  
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MARTIN, Robert E. (Dr)  
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MERZ, Robert H. (PE)  
MILLER, Carl F. (Dr)  
MOBLEY, John M.  
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O'KEEFE, Joseph  
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PEEBLES, J. H.  
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PICKARD, Sherman  
PIERCE, Monte K.  
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POLLET, O. L. "Pay"  
PROPEE, George H. Jr  
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PUPINGTON, Robert G.  
PADNOFSKY, M. I.  
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SOLOMON, Richard H. (PE)  
STEELE, Charles H.  
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 PIERCE, Monte K.  
 POKLACKI, Erwin S. (Dr)  
 PORT, William S.  
 PRENTICE, Jack L.  
 PRUITT, Basil A. Jr (MD, LtC, MC)  
 PUTNAM, Abbott A.  
 PEEVES, W. A.  
 REIMSCHUESSEL, Herbert K (Dr)  
 RICE, William Y. (Dr)  
 PIZZO, Frank J.  
 RODIL, Norbert  
 RYAN, James V.  
 RYAN, Norman W. (Prof)  
 SANDERSON, W.  
 SAPKOS, Constantine P.  
 SAVIDES, D. (Dr)  
 SCARBPOUGH, Don R.  
 SCHREYER, Charles H.  
 SCHULMAN, Stanley  
 SEADEF, J. D. (Prof)

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 SIDMAN, Kenneth R.  
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 SLATEN, Buster  
 SLATER, James  
 SLICER, J. Sam  
 SMITH, Betty F. (Dr)  
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 SNIECHOSKI, Edward F. (PE)  
 SPIEGELMAN, Arthur  
 SPRAGUE, Robert W. (Dr)  
 STAFK, G. W. V.  
 STARRETT, P. S.  
 STEPNICZKA, Heinrich (Dr)  
 STOEHR, E. K.  
 STOLL, Alice M.  
 STRUGAR, Daniel (Dr)  
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 TEITELL, Leonard (Dr)  
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 WELKER, J. Reed  
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 WILLARD, Bruce S.  
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 WINGER, James  
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 AFFENS, Wilbur A. (Dr)  
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 ANDERSON, Hal E.  
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 SIMON, S. S.  
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 SMITH, Michael  
 SMITH, Paul D. (PE)  
 SMITH, Warren K.  
 SNIECHOSKI, Edward R. (PE)  
 SNYDER, S. D. (Dr)  
 STAMPLEY, O. K.  
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 STARRETT, P. S.  
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 STOCKSTAD, Dwight S.  
 STOEHR, E. K.  
 STOLL, Alice M.  
 STONE, Jack P.  
 STPAUSS, W. A.  
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 SUMMERS, Howard  
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 TAKATA, Arthur N.  
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 TIPPER, C. F. H.  
 TODTENKOPF, N.  
 TOONG, T. Y.  
 TULIS, Milton A.  
 VALANCE, William G. (Dr)

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VAN DOLAH, Robert W.  
 VENTRONE, T. A.  
 VEPAKIS, Harry C.  
 VIRR, L. C. (CE, MI, ME)  
 VOIGT, Robert K.  
 WARREN, J. H.  
 WEATHERFORD, W. D. Jr  
 WEBBER, Laurance E.  
 WEINSTOCK, Lionel I.  
 WELDON, G. E.  
 WELKER, J. Reed  
 WESSON, H. R.  
 WESTON, J. T. (Prof)  
 WETMOPE, Elmer M.  
 WIERFMA, S. J.  
 WILLIAMSON, H. V.  
 WILLIAMSON, R. Brady (Prof)  
 WILLISFORD, William M.  
 WILLNER, Abner P.  
 WILSON, Carl C.  
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 WINQUIST, C. J.  
 WISMER, Marco  
 WOOD, Byard D.  
 WYETH, H. W. G.  
 YUILL, Calvin H.  
 ZABETAKIS, Michael G.  
 ZERNOW, Louis (Dr)  
 ZIMMER, B. A.

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BAIRD, Andrew W.  
 BAUGHMAN, Robert G.  
 BOLIE, Arnold  
 BRACKEBUSCH, Arthur P.  
 BROIDO, A.  
 BROWN, James K.  
 CAKIN, Helen S.  
 COOPER, P. W.  
 COUNTRYMAN, C. M.  
 CRAMER, Owen P.  
 CROSBY, J. S.  
 FAHNESTOCK, George F.  
 FUQUAY, Donald M.  
 HAINES, Donald A.  
 HEILMAN, Edward G.  
 HOUGH, W. A.  
 JOHNSON, R. W.  
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 LOOMIS, Robert M.  
 MAIN, William A.  
 McNASSER, K. W.  
 MUTCH, Robert W.  
 NORUM, Rodney A.  
 ROUSSOPOULOS, Peter J.  
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ADAMS, Donald F. (Prof)  
AFFENS, Wilbur A. (Dr)  
ALGER, Raymond S.  
ANDERSON, Hal E.  
ATKINSON, A. J.  
AVERY, William H.  
BAER, Alva D.  
BARNEY, R. J.  
BARROWS, Austin (Dr)  
BEENKEN, Dietrich  
BENSON, S.  
BEPL, Walter G. (Dr)  
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BILLIG, Frederick S.  
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BROIDO, A.  
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BUCKLAND, Bruce (ME)  
BULKLEY, W. L.  
BUTLER, C. P.  
CAPENER, E.  
CASHIN, W. T.  
CHAMBERLAIN, George  
CHANDLER, Craig C.  
CHIANTA, Maria A.  
CHOLEN, Roger B.  
CLODFELTER, P. G.  
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COPLEY, John A. (Dr)  
COUNTRYMAN, C. M.  
COWICK, Tom L.  
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